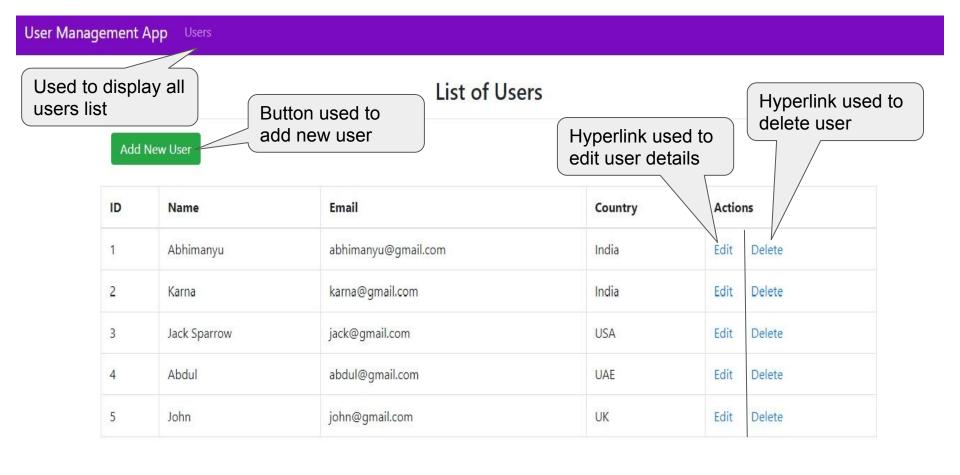# Title: <u>User Management Web Application</u>

<u>User Management</u> web application is for managing a collection of **users** with the CURD operation features like:
1) Create a User
2) Update a User
3) Retrieve a User
4) Delete a User
5) List all the Users

User Management App   Users

Used to display all users list

List of Users

Button used to add new user

Hyperlink used to edit user details

Hyperlink used to delete user

Add New User

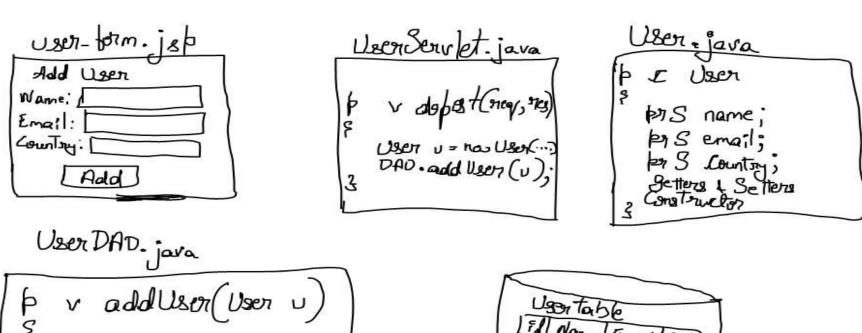| ID	Name	Email	Country	Actions	
1	Abhimanyu	abhimanyu@gmail.com	India	Edit	Delete
2	Karna	karna@gmail.com	India	Edit	Delete
3	Jack Sparrow	jack@gmail.com	USA	Edit	Delete
4	Abdul	abdul@gmail.com	UAE	Edit	Delete
5	John	john@gmail.com	UK	Edit	Delete

→ Tools and Technologies Used:

1) JSP - 2.2 +

2) IDE - Eclipse Oxygen

3) JDK 1.8 or later

4) Apache Tomcat v9.0

5) MySQL Workbench v8.0

6) MySQL Server v8.0

7) Bootstrap 4 or later

8) jstl.1.2.1.jar

9) servlet-api.2.3.jar

10) mysql-connector-java.8.0.jar

11) jsp-api.2.3.1.jar

→ Development Steps:

1. Create an Eclipse Dynamic Web Project
2. Add Dependencies → Add JAR files to the Web Project
3. MySQL Database Setup → create table for storing user details
4. Create a JavaBean - User.java → Model
5. Create a UserDAO.java → DAO layer
6. Create a UserServlet.java → Servlet
7. Creating User Listing JSP Page - user-list.jsp → View 1
8. Create a User Form JSP Page - user-form.jsp → View 2
9. Deploying and Testing the Application Demo

User-form.jsp

Add User

Name: [_____]

Email: [_____]

Country: [_____]

[Add]

UserServlet.java

```
p   v doPost(req, res)
{

    User u = new User(...);
    DAO.addUser(u);

}
```

User.java

```
p  c  User
{

    pr S name;
    pr S email;
    pr S Country;
    Getters & Setters
    Constructor
}
```

UserDAO.java

```
p  v addUser(User u)
{

    [ JDBC   Code ]

}
```

User Table

id	Name	Email	Country

…/…/user-form.jsp

Name: Balaji

Email: balaji@gmail.com

Country: India

ADD

UserServlet.java

```
public void doPost(req, res)
{
    User u = new User("Balaji", "balaji@gmail.com", "India");
    UserDao.addUser(u);
}
```

User.java

```
public class User
{

private String name;
private String email;
private String country;
public User(String n, String e, String c)
{
        name = n;
        email = e;
        country = c;

}
// One Parameterless constructor
// Getters and Setters
```

---

u

name	email
Balaji	balaji@gmail.com

country
India

UserDao.java

```
public class UserDao
{

    public static void addUser(User user)
    {
        // Loading Driver Class
        // Establishing connection
        // Preparing SQL statement
        // Executing the Query
        // Closing connections
    }

}
```

UserTable

Name	Email	Country
Balaji	balaji@gmail.com	India